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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/790,173	03/01/2004	Fred H. Burbank	R0367-00103	1003
61808	7590	08/20/2007	EXAMINER	
EDWARD J. LYNCH			TOWA, RENE T	
DUANE MORRIS LLP ONE MARKET			ART UNIT	PAPER NUMBER
SPEAR TOWER, SUITE 2000			3736	
SAN FRANCISCO, CA 94105				
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No.	Applicant(s)
	10/790,173	BURBANK ET AL.
	Examiner	Art Unit
	Rene Towa	3736

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 31 May 2007.
- 2a) This action is FINAL. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1,40-45 and 47-53 is/are pending in the application.
 - 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) Claim(s) _____ is/are allowed.
- 6) Claim(s) 1,40-45 and 47-53 is/are rejected.
- 7) Claim(s) _____ is/are objected to.
- 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) Notice of References Cited (PTO-892)
- 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date 4/5/07.
- 4) Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
- 5) Notice of Informal Patent Application (PTO-152)
- 6) Other: _____.

DETAILED ACTION

1. This Office action is responsive to the amendments filed May 31, 2007. Claims 1, 40-45 and 47-53 are pending. No new claim has been added. Claim 1 has been amended. Claims 2-39, 46 and 54-56 have been cancelled.

Claim Objections

2. Claims 1, 40-45 and 47-53 are objected to because of the following informalities:

In regards to claim 1, at line 8, the limitations "the distal end" lack sufficient antecedent basis.

Appropriate correction is required.

Claim Rejections - 35 USC § 103

3. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

4. Claims 1, 40-43, and 47-53 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kieturakis (US Patent No. 5,794,626) in view of Tihon et al. (US Patent No. 5,415,656).

- ***Regarding claims 1, 40-43 & 47-53 (general content of the prior art):***

In regards to claim 1, Kieturakis discloses a biopsy instrument 5 for retrieving tissue specimen from surrounding tissue at a target site, having a longitudinal axis and tissue penetrating distal tip 45, comprising:

a housing;

an elongated shaft 40 having a longitudinal axis and a proximal end within the housing (see figs. 3-4); and

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an elongated cutting element 15 disposed on a distal portion of the instrument, which is actuatable between a radially retracted position and a radially extended position and which is rotationally movable in said radially extended position to isolate a desired tissue specimen from surrounding tissue by defining a peripheral margin about said tissue specimen (see abstract; see figs. 3 & 5-8);

an outer sheath (not shown) slidably disposed about the shaft and configured for axial movement between distal and proximal positions for selectively covering and uncovering the cutting element (see column 9/lines 11-17);

a rotating driving member in the housing connected to the proximal end of the elongated shaft 40 to rotate the shaft 40 with respect to the housing and to rotate the elongated cutting element 15 secured to the distal portion of the shaft 40 (see column 6/lines 44-62); and

a longitudinal driving member 30 (see column 4/line 59 to column 5/line 2) slidably disposed within the outer sheath having a proximal portion in the housing and a distal portion connected to the elongated electrosurgical cutting element to actuate the cutting element between the radially retracted position and the radially extended position (see figs. 1-3; column 3/lines 61-67; column 6/lines 13-19; column 9/lines 11-17).

In regards to claim 42, Kieturakis discloses a biopsy instrument wherein the cutting element 15 has a proximal end 23 and a distal end 24 and which is configured to move one end closer to the other end to effect radial extension from the retracted position to the radial extended position (see fig. 2).

In regards to claim 43, Kieturakis discloses a biopsy instrument wherein the cutting element 15 is configured so that the distal end 24 is fixed and the proximal end 23 moves toward the distal end 24 in order to radial extend the cutting element 15 (see figs. 2-3).

In regards to claim 47, Kieturakis discloses a biopsy instrument including a proximal driver unit 150 for controlling radial expansion and retraction of the cutting element and rotation of the cutting element about the longitudinal axis (see column 6/lines 13-19, 44-52, 56-62 & 66-67; column 7/lines 1-4 & 31-36; column 8/lines 2-10).

In regards to claim 48, Kieturakis discloses a biopsy instrument wherein the proximal driver unit 150 further controls axial movement of said shaft 40 (see column 6/lines 13-19, 44-52, 56-62 & 66-67; column 7/lines 1-4 & 31-36; column 9/lines 11-17).

In regards to claim 49, Kieturakis discloses a biopsy instrument wherein the cutting element 15 is configured to be manipulated to segment the tissue specimen (see figs. 2-3; column 3/lines 61-67).

In regards to claim 50, Kieturakis discloses a biopsy instrument wherein the electrosurgical proximal tissue cutting element 15 is configured to segment the tissue specimen after it has been isolated from the surrounding tissue (see figs. 2-3; column 3/lines 61-67).

In regards to claim 51, Kieturakis discloses a biopsy instrument wherein the tissue cutting element 15 is capable of segmenting the tissue specimen as it is being retracted from said radially extended position to said radially retracted position (see figs. 2-3).

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In regards to claim 52, Kieturakis discloses a biopsy instrument wherein the radially extended position comprises a first radially extended position, and wherein the cutting element 15 is further actuatable to a plurality of additional radially extended positions and rotatable about the longitudinal axis in each of said radially extended positions to selectively peripherally segment said tissue specimen (see figs. 2-3).

In regards to claim 53, Kieturakis discloses a biopsy instrument wherein the instrument further comprises a cannula 10 having a lumen 56 for providing a passageway into the patient's body, the segments of the tissue specimen being removable from the patient's body through the cannula 10 (see fig. 3).

Kieturakis discloses an instrument, as described above, that fails to expressly teach an electrosurgical cutting element or an automatically controllably sliding outer sheath.

However, Tihon et al. disclose an apparatus comprising an electrosurgical cutting wire 1, energized by radio frequency (RF) energy; wherein an electrical conductor 35 having a distal end electrically connected to the electrosurgical cutting element and a proximal end configured to be connected to a source ESU to deliver radio frequency energy from the source to the electrosurgical cutting element (see figs. 2 & 8; column 1/lines 65-68; column 2/lines 1-5 & 20-31; column 3/lines 21-33; column 5/lines 56-64; column 8/lines 32-41).

Applying the factual inquiries set forth in *Graham v. John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) and are summarized as follows:

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1. Determining the scope and contents of the prior art.
2. Ascertaining the differences between the prior art and the claims at issue.
3. Resolving the level of ordinary skill in the pertinent art.
4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

- ***In regards to claim 1 (motivation to combine):***

Since both Kieturakis and Tihon et al. teach radially retractable cutting elements associated with medical devices, it would have been obvious to one of ordinary skill in the art at the time Applicant's invention was made to provide a system similar to that of Kieturakis with an electrosurgical cutting element similar to that of Tihon et al. in order to make the cutting operation easier, more direct and thus less traumatic, than cutting with an unpowered cutter. Moreover, use of RF powered cutting element permits the convenient application of coagulating power for hemostasis (see Tihon et al., column 1/line 65 to column 2/line 5).

- ***In regards to claim 48 (motivation to combine):***

Since Kieturakis discloses an automated instrument (see column 6/lines 13-19, 44-52, 56-62 & 66-67; column 7/lines 31-37; column 8/lines 2-10 & 15-18), comprising an outer sheath (see column 9/lines 11-17) that is slidably disposed about the shaft 40, it would have been obvious to one of ordinary skill in the art at the time Applicant's invention was made to provide a system similar to that of Kieturakis as modified by Tihon et al. with a power unit that controls movements of the sheath as claimed since such a modification would serve the purpose of further automating the instrument in accordance with an actuation cycle as suggested by Kieturakis. Moreover, it has

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previously been held that merely making automatic is not patentable--See *In re Venner*, 262 F.2d 91, 95, 120 USPQ 192, 194 (CCPA 1958).

5. **Claims 44-45** are rejected under 35 U.S.C. 103(a) as being unpatentable over Kieturakis ('626) in view of Tihon et al. ('656) further in view of Treat (US Patent No. 4,493,320).

Kieturakis as modified by Tihon et al. discloses a system, as described above, that teaches all the limitations of the claim except Kieturakis as modified by Tihon et al. does not explicitly teach a bipolar or monopolar electrode.

However, Treat discloses a system comprising a bipolar electrode 24 (see fig. 3; column 3/lines 14-19; column 4/lines 44-49).

Because Kieturakis discloses a device for rotatably cutting a volume of tissue using radially retractable cutting elements; Tihon et al. teach that it is beneficial to cut tissue using an electrosurgical radially retractable electrode cutting element; and, Treat teaches advantages provided by a bipolar electrode cutting element, it would have been obvious to one of ordinary skill in the art at the time Applicant's invention was made to provide an instrument similar to that of Kieturakis as modified by Tihon et al. with a bipolar electrode cutting element similar to that of Treat in order to localize the cauterization to a small predefined volume of tissue (see Treat, column 2/lines 31-41).

Similarly, it would have been obvious to one of ordinary skill in the art at the time Applicant's invention was made to provide a system similar to that of Kieturakis as modified by Tihon et al. with a monopolar electrode in order to cauterize an undefined volume of tissue.

Response to Arguments

6. Applicant's arguments filed May 31, 2007 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Rene Towa whose telephone number is (571) 272-8758. The examiner can normally be reached on M-F, 8:00-16:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Max Hindenburg can be reached on (571) 272-4726. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/RTT/


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